

Docket No.:

10512-0007-25 DIV

OBLON
SPIVAK
MCCLELLAND
MAIER
&
NEUSTADT
P.C.

ATTORNEYS AT LAW

ASSISTANT COMMISSIONER FOR PATENTS WASHINGTON, D.C. 20231

RE: Application Serial No.: 09/538,493 Applicants: Geoffrey B. RHOADS

Filing Date: March 30, 2000

For: METHODS FOR INSERTING AND DETECTING

WATERMARKS IN DIGITAL DATA

Group Art Unit: 2621

Examiner: COUSO, JOSE L.

RECEIVED

DEC 3 0 2002

Technology Center 2600

SIR:

Attached hereto for filing are the following papers:

SUPPLEMENTAL 37 CFR 1.607 REQUEST FOR AN INTERFERENCE WITH A PATENT

Our check in the amount of \$0.00 is attached covering any required fees. In the event any variance exists between the amount enclosed and the Patent Office charges for filing the above-noted documents, including any fees required under 37 C.F.R 1.136 for any necessary Extension of Time to make the filing of the attached documents timely, please charge or credit the difference to our Deposit Account No. 15-0030. Further, if these papers are not considered timely filed, then a petition is hereby made under 37 C.F.R. 1.136 for the necessary extension of time. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.

W. Lood (Poly Res No. 45, 265

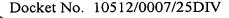
Charles L. Gholz

Registration No. 26,395

Michael R. Casey Registration No. 40,294

22850

(703) 413-3000 (phone) (703) 413-2220 (fax) I:\ATTYWTB\10512\105120007\SHT PTO 26 DEC 02.DOC



IN THE UNITED STATES PATENT & TRADEMARK OFFICE

RE APPLICATION OF:

Rhoads

SERIAL NO: 09/538,493 : GROUP ART UNIT: 2721

FILED: March 20, 2000 : EXAMINER: CUOSO, J.

FOR: METHODS FOR INSERTING AND

DETECTING WATERMARKS IN

DIGITAL DATA

SUPPLEMENTAL 37 CFR 1.607 REQUEST FOR AN INTERFERENCE WITH A PATENT

DEC 3 0 2002

ASSISTANT COMMISSIONER FOR PATENTS WASHINGTON, D.C. 20231

Technology Center 2600

RECEIVED

SIR:

In response to the office action dated November 26, 2002, Applicants have applied each limitation or element of claims 58-133 to the disclosure of the above identified application. Applicants note that the support identified is not intended to be limiting to the scope of the claims, nor is it intended to reflect all portions of the specification which provide support for a particular feature.

Claims 58-133 of the Present Application	Application to the Disclosure of the Application
58. A system for pre-analyzing a digital signal for encoding at least one digital watermark using a digital filter comprising:	Page 129 lines 27-31.
a processor for identifying an area of the digital signal that will be affected by the digital filter; and	See page 129 lines 27-31, page 130 lines 2-7, and page 11 lines 18-31.

an encoder for encoding the at least one	See Figure 6.
digital watermark in the digital signal, the	
encoder encoding the at least one digital	
watermark so as to avoid the at least one area of	·
the digital signal that will be affected by the	·
digital filter.	•
59. The system of claim 58, wherein the	Page 32 lines 12 and 13.
processor operates on the digital signal by	1 age 32 lines 12 and 13.
selecting an area of the digital signal from the	
group consisting of a frequency delimited area	
and a time delimited area.	
60. The system of claim 58, wherein the	Page 129 lines 27-30.
processor operates on the digital signal by	
selecting an area of the digital signal from a bit-	
depth delimited area.	
61. The system of claim 58, wherein the	Page 32 lines 3-16.
encoder ensures that the watermark will survive	
the changes introduced by the digital filter.	
62. A system for pre-processing a	Figure 6 illustrates an encoding system
watermark message, comprising:	including a register 216 configured to store
, , , , , , , , , , , , , , , , , , ,	an N-bit identification word.
	an it of identification word.
a pre-processor for determining an exact	See Figure 6, pointer 230, page 5 lines 22-
length of a watermark message as it will be	29, and page 27, lines 8-15.
encoded; and	27, and page 27, mies 8-13.
elicoded, and	
a least concretor for concreting a	Page 22 lines 16 and 17; and page 20 lines
a key generator for generating a	Page 23 lines 16 and 17; and page 30 lines 15-19.
watermark key that provides at least one unique	15-19.
bit for each bit comprising the watermark	
message.	
63. A system for encoding a watermark	Figure 6 illustrates a system for encoding a
in a digital signal, comprising:	watermark in an input digital signal 218.
a generator for generating a plurality of	Figure 6, pseudo random source 206, and
watermark pseudo-random key bits; and	page 33 lines 10-13.
an encoder for encoding the watermark	See Figure 6, adder/subtracter 212, page 23
in the digital signal using the watermark	line 21 - page 24 line 29, and page 32 lines
pseudo-random key bits and characteristics of	3-16.
the digital signal.	
64. The system of claim 63, wherein the	See Figure 6 element 206 and page 34 lines
generator is selected from the group consisting	13-24.
of a non-linear generator and a scrambling	
generator.	
	Page 10 lines 3-9.
65. The system of claim 63, wherein the	rage to filles 3-9.
characteristics of the digital signal comprise	

mathematically defined functions of the digital	
signal. 66. A system for encoding a watermark in a digital signal, comprising:	See Figure 6 and page 30 lines 15-19.
a mapper for mapping pseudo-random key and processing state information to effect an encode/decode map using a generator; and	Page 30 lines 15-19 and page 49 lines 26-31.
an encoder for encoding the watermark in the digital signal using the encode/decode map and characteristics of the digital signal.	Figure 6, adder/subtracter 212.
67. The system of claim 66, wherein the generator is selected from the group consisting of a non-linear generator and a scrambling	See pseudo random source 206; and page 34 lines 13-24.
generator. 68. The system of claim 66, wherein the characteristics of the digital signal comprise mathematically defined functions of the digital signal.	Page 10 lines 3-9.
69. A system for encoding watermarks, comprising:	See page 6 line 19 - page 9 line 18.
an inverter for inverting at least one instance of the watermark bit stream; and	Page 16 line 22 - page 17 line 7.
an encoder for encoding at least one instance of the watermark using the inverted instance of the watermark bit stream.	Page 7 line 27 - page 8 line 2.
70. A system for analyzing composite digitized signals for watermarks, comprising:	Page 8 line 3 – page 9 line 18.
a first receiver for receiving a composite signal;	Page 8 lines 13-20 analysis.
a second receiver for receiving an unwatermarked sample signal;	Page 8 lines 3-4 and page 8 lines 13-20.
an aligner for time aligning the unwatermarked sample signal with the composite signal;	Page 25 lines 22-26.
an adjuster for gain adjusting the time aligned unwatermarked sample signal to a corresponding segment of the composite signal, determined when the signals are time aligned;	Page 25 lines 22-26 disclose registering the suspect signal by scaling the amplitude of the suspect signal relative to the original unwatermarked sample signal.

an estimator for estimating a pre- composite signal using the composite signal and the gain adjusted unwatermarked sample signal;	Page 8 line 27- p age 9 line 3.
an estimator for estimating a watermarked sample signal by subtracting the estimated pre-composite signal from the composite signal; and	Page 8 line 27- p age 9 line 3.
a scanner for scanning the estimated watermarked sample signal for watermarks.	Page 9 lines 4-18 disclose that the result of the subtraction is analyzed for the watermark.
71. A method for pre-analyzing a digital signal for encoding a plurality of digital watermarks using a digital filter, comprising:	Figure 6 and page 23 line 21- page 25 line 3.
providing a digital signal;	See Figure 6, input 218.
providing a plurality of digital watermarks;	Page 24 lines 15-24.
determining an encoding level; and	See Figure 6 first scaler 208 and second scaler 210.
encoding each of the plurality of digital watermarks in the digital signal at substantially the same encoding level.	See Figure 6 adder/subtracter 212.
72. A method for pre-analyzing a digital signal for encoding digital watermarks using a digital filter, comprising:	Page 129 lines 27-31.
reading a digital signal;	Page 129 line 28.
providing a digital filter to be applied to the digital signal; and	Page 130 lines 2-7.
identifying an area of the digital signal that will be affected by the digital filter based on at least one measurable difference between the digital signal and a counterpart of the digital signal selected from the group consisting of the digital signal as transmitted, the digital signal as stored in a medium, and the digital signal as played backed.	Page 129 lines 27-31 and page 130 lines 2-7.
73. A method for encoding a watermark in a content signal, comprising:	See page 6 line 19 - page 9 line 18.

splitting a watermark bit stream; and	Page 16 line 22 - page 17 line 7.
encoding at least half of the watermark bit stream in the content signal using offsetting instances of the watermark bit stream.	Page 7 line 27 - page 8 line 2.
74. A method for encoding at least one watermark in a content signal, comprising:	See page 6 line 19 - page 9 line 18.
predetermining a number of bits in the content signal to be encoded, based on at least one of a fixed length key and signal characteristics of the content signal; and	Page 45 line 11 - page 46 line 3.
encoding the watermark in the predetermined bits.	Page 7 line 27 - page 8 line 2.
75. A method for encoding at least one watermark in a content signal, comprising:	Page 127 line 10 – page 12 page 130 line 12 address perceptually adaptive signing.
locating at least one noise-like signal feature in the content signal; and	Page 128 lines 3-13.
encoding the at least one watermark in substantially the same location as the at least one noise-like signal feature.	Page 128 lines 3-13.
76. A method for encoding at least one digital watermark in a content signal comprising:	Page 5 lines 22-29.
measuring a perceived signal-to-error ratio; and	Page 7 lines 9-14.
encoding the at least one watermark in a channel bound by a minimum and maximum signal-to-error level for the content signal.	Page 7 lines 9-14.
77. A method for digital watermark encode/decode comprising the step[s] of:	Page 5 lines 22-29.
measuring a perceived signal-to-error ratio; and	Page 7 lines 9-14.
encoding at least one watermark in a signal feature that is bound by a minimum and maximum signal-to-error level for the digital signal.	Page 126 line 13 – page 127 line 7.
78. A method for digital watermark decode comprising:	Page 8 line 3 – page 9 line 18.

receiving a suspect digital signal to be analyzed;	Page 8 lines 13-20.
subjecting the digital signal to a time- based alignment;	Page 25 lines 22-26.
using the time-based alignment to align amplitude values in the suspect digital signal; and	Page 25 lines 22-26.
decoding a digital watermark.	Page 8 lines 27-31 and page 9 lines 4-18.
79. A method for encoding watermarks in a digital content signal, comprising:	Page 74 line 5 - page 75 line 2.
identifying a plurality of signal features in the digital content signal; and	Figures 21A and 21B and page 74 lines 19-25.
inserting watermark data in the identified signal features;	Page 74 lines 14-18.
wherein the identified signal features are identified from relationships between multiple sample windows in the digital content signal.	Figures 21A and 21B and page 74 lines 19-25.
80. The method of claim 79, wherein the signal features have logical relationships with an analog waveform represented by the digital content signal.	Page 74 lines 8-13.
81. The method of claim 79, wherein the signal features comprise mathematical functions of the sample windows.	Page 74 line 5 - page 75 line 2; and page 26 line 27- page 27 line 2.
82. A method for decoding watermarks from a digital content signal, comprising:	See page 8 line 13 - page 9 line18.
identifying a plurality of signal features in the digital content signal; and	Page 74 line 5 - page 75 line 2.
decoding watermark data from the signal features;	See page 8 line 13 - page 9 line 18 and page 74 line 5 - page 75 line 2.
wherein the signal features are identified from relationships between multiple sample windows in the digital content signal.	Figures 21A and 21B and page 74 lines 19-25.
83. The method of claim 82, wherein the signal features have logical relationships with an analog waveform represented by the	Page 74 lines 8-13.

digital content signal.	
84. The method of claim 82, wherein the	74 line 5 - page 75 line 2.
signal features comprise mathematical functions	7 mile 3 page 73 mile 2.
of the sample windows.	
85. A method for pre-analyzing a digital	Page 129 lines 27-31.
signal for encoding digital watermarks using a	1 ago 129 mics 27 31.
digital filter comprising:	
digital litter comprising.	
identifying at least one of a frequency	Page 32 lines 12 and 13.
and a time delimited area of the digital signal	1 age 32 imes 12 and 13.
that will be affected by the digital filter; and	
that will be affected by the digital litter, and	
encoding at least one digital watermark	Page 129 lines 27-31 and page 32 lines 3-
so as to avoid the identified area.	13.
86. A method for pre-analyzing a digital	Page 54 line 4 – page 58 line 10.
signal for encoding digital watermarks using a	page 50 mile 10.
digital filter, comprising:	
digital inter, comprising.	
identifying at least one change to the	Page 54 lines 4-6.
digital signal that will be affected by the digital	1 age of this of
filter; and	
into, and	
encoding at least one digital watermark	Page 57 line 17 – page 58 line 10.
so the watermark survives the changes	page 57 mile 17 page 56 mile 16.
introduced by the digital filter.	
87. A method for guaranteeing	Page 33 lines 14-20.
watermark uniqueness, comprising:	1 25 00 111100 1 1 201
,	
providing a watermark; and	Page 33 lines 14-20.
,	
attaching a timestamp.	Page 33 lines 14-20.
88. A method for guaranteeing	Page 116 lines 13-23.
watermark uniqueness, comprising:	
providing a watermark; and	Page 116 lines 13-23.
attaching a user identification dependent	Page 116lines 13-23.
hash to the watermark.	
89. A method for guaranteeing	Page 61 lines 2-17.
watermark uniqueness, comprising:	
providing a watermark; and	Page 61 lines 2-17.
attaching a message digest of watermark	Page 61 lines 2-17.
data.	
90. A system for digital watermark	Figure 6 and page 127 line 10 – page 130

encode/decode operations, comprising:	line 12.
a parameter database comprising a plurality of parameters; and	Page 129 lines 10-13 and page 130 lines 8-12.
a processor which encodes at least one watermark using at least one parameter from the parameter database.	Figure 6 element 212.
91. A method for digital watermark encode/decode comprising:	Figure 6 and page 46 line 22 – page 47 line 9.
providing a digital signal stream;	See input 218 of Figure 6.
Using one or more of a plurality of watermarking parameters to encode at least one digital watermark; and	Page 46 lines 29 and 30.
associating the one or more of a plurality of watermarking parameters with a predetermined key.	Page 47 lines 6-9.
92. An article of manufacture comprising:	Figure 6 and page 46 line 22 – page 47 line 9.
a receiver to receive a digital signal;	Figure 6 element 218.
a detector to detect at least two of a plurality of digital watermarks located within the digital signal; and	Page 47 lines 2-9 and Figure 6.
a processor that enables content signal manipulation of the digital signal based on successful detection of at least two of the plurality of digital watermarks.	Page 47 lines 2-9 and Figure 6.
93. The article of claim 92, wherein the detector also detects a watermark, further comprising:	
a verification module which verifies at least one detected watermark.	Page 47 lines 6-9.
94. A method for pre-processing a digital data signal to authorize a plurality of unique descendant copies of the digital data signal, comprising:	Figure 7 and page 30 line 28 – page 31 line 9.
providing the digital data signal;	See Figure 7.
identifying a plurality of candidate bits	See page 127 line 10 – page 130 line 13 re

in the digital data signal that can be	perceptually adaptive signing.
manipulated during embedding;	
generating a digital watermark message	Page 30 line 28 – page 31 line 9.
	1 age 30 mie 20 – page 31 mie 3.
to be embedded based on at least one	
predetermined criterion; and	
embedding the digital watermark	See real time encoder 202 in Figure 7.
message in the plurality of candidate bits.	
95. The method of claim 94, wherein the	
step of identifying candidate bits of the digital	
data signal to be manipulated comprises:	
generating a psychoacoustic model of	See equations (1) and (2) on page 10 and
the digital data signal.	page 28 lines 20-31.
96. The method of claim 94, wherein	
the step of identifying candidate bits of the	
digital data signal to be manipulated comprises:	
generating a psychovisual model of the	See page 127 line 10 – page 130 line 13 re
,	
digital data signal.	perceptually adaptive signing.
97. The method of claim 94, wherein	See page 46 lines 6-18.
the digital data signal comprises compressed	
digital data.	
98. The method of claim 94, wherein	
the step of generating a digital watermark	
message comprises:	
generating a unique digital watermark	See page 30 line 28 – page 31 line 9.
message for each authorized descendant copy.	
99. The method of claim 94, wherein	Page 5 lines 22-29, page 30 line 28 – page
the criterion are selected from the group	31 line 9, and page 37 lines 2-23.
consisting of a transaction identification, an	
individual identification, a use limitation, and a	
signal domain.	
100. The method of claim 94, wherein	Page 32 lines 12-16.
the digital watermark message is encoded in a	
subset of the plurality of candidate bits	
identified.	
101. The method of claim 94, wherein	Page 45 line 25 - page 46 line 3.
the plurality of candidate bits that are embedded	
with the digital watermark message have a	
relationship that creates additional uniqueness	
of the digital watermark message.	
102. The method of claim 101, wherein	See page 45 line 25 - page 46 line 3.
the relationship is at least one of a sequential	
relationship, a linear relationship, and a	
rotationiship, a infoat rotationiship, and a	1

1 1 1 1 1 1 1 1 1 1	
logically-ordered relationship.	7 1071
103. The method of claim 94, wherein a	Page 125 lines 19-22.
subset of the plurality of the candidate bits share	
at least one function.	
104. The method of claim 103, wherein	See page 23 lines 13-17, and page 125 lines
the function is selected from the group	19-22.
consisting of mapping, error correction, and	
signal processing.	
105. The method of claim 94 further	
comprising:	
comprising.	
aplactively adding noise to the digital	Page 32 lines 12-16.
selectively adding noise to the digital	Fage 32 mies 12-10.
data signal.	D 201' 15 211' 0 1
106. A method for pre-processing a	Page 30 line 15 – page 31 line 9 and page
digital data signal to steganographically encode	49 line 26- page 50 line 5.
unique copies of the digital data signal,	
comprising:	
providing a digital data signal;	See Figure 7.
identifying candidate bits of the digital	Page 32 lines 12-16.
data signal that will be steganographically	
encoded;	
generating a key on at least one	Page 49 lines 29-31.
predetermined criterion; and	
manipulating the digital data signal at	See Figure 13.
the plurality of candidate bits with the key.	See Figure 13.
107. The method of claim 106, wherein	
the step of identifying candidate bits of the	
1	
digital data signal to be manipulated comprises:	
3-1-6	See equations (1) and (2) are read 10 and
generating a psychoacoustic model of	See equations (1) and (2) on page 10 and
the digital data signal.	page 28 lines 20-31.
108. The method of claim 106, wherein	
the step of identifying candidate bits of the	
digital data signal to be manipulated comprises:	
generating a psychovisual model of the	See page 127 line 10 – page 130 line 13 re
digital data signal.	perceptually adaptive signing.
109. The method of claim 106, wherein	See page 46 lines 6-18.
the step of providing a digital data signal	
comprises providing a digital data signal	
comprised of compressed digital data.	
110. The method of claim 106, wherein	
the step of generating a scrambling key	
the step of generating a seramoning key	<u>L</u>

comprises:	
generating a unique scrambling key for each authorized copy.	Figure 7 and page 30 line 28 – page 31 line 9.
111. The method of claim 106, wherein the criterion are selected from the group consisting of a transaction identification, an individual identification, a use limitation, and a signal domain.	Page 5 lines 22-29, page 30 line 28 – page 31 line 9, and page 37 lines 2-23.
112. The method of claim 106, wherein a subset of the plurality of candidate bits identified are manipulated with the key.	Page 32 lines 12-16.
113. The method of claim 106, wherein the step of manipulating the digital data signal at the plurality of candidate bits with the scrambling key comprises:	
manipulating the plurality of candidate bits with a key to embed a watermark and to add noise to digital signal.	See Figure 13.
114. The method of claim 113, wherein the relationship is at least one of a sequential relationship, a linear relationship, and a logically-ordered relationship.	See page 45 line 25 - page 46 line 3.
115. The method of claim 106, wherein a subset of the plurality of the candidate bits are selected based upon their ability to survive a predetermined test of robustness.	Page 127 line 10 – page 130 line 12, and page 32 lines 12-16.
116. The method of claim 115, wherein the function is selected from the group consisting of mapping, error correction, and signal processing.	See page 23 lines 13-17, and page 125 lines 19-22.
117. A method for creating a copy of a digital data signal, comprising:	Page 9 line 21 – page 12 line 31.
obtaining a model for the digital data signal; and	See equations (1) and (2) on page 10.
generating a watermark for the descendant copy of the digital data signal based on at least one criterion.	Page 10 lines 26-30.
118. The method of claim 117, wherein the step of obtaining a model of the digital data signal comprises:	
generating the psychoacoustic model for the digital data signal.	See equations (1) and (2) on page 10 and page 28 lines 20-31.

119. The method of claim 117, wherein	
the step of obtaining a model of the digital data	
signal comprises:	
retrieving a stored psychoacoustic model	See equations (1) and (2) on page 10 and
for the digital data signal.	page 28 lines 20-31.
120. The method of claim 117, wherein	
the step of obtaining a model of the digital data	
signal comprises:	
signar comprises.	
generating the psychovisual model for	See page 127 line 10 – page 130 line 13 re
the digital data signal.	perceptually adaptive signing.
121. The method of claim 117, wherein	perceptually adaptive signing.
the step of obtaining a model of the digital data	
signal comprises:	
	Can man 127 lim 10
retrieving a stored psychovisual model	See page 127 line 10 – page 130 line 13 re
for the digital data signal.	perceptually adaptive signing and page 130
100 m	lines 8-12.
122. The method of claim 117, wherein	Page 5 lines 22-29, page 30 line 28 – page
the criterion are selected from the group	31 line 9, and page 37 lines 2-23.
consisting of a transaction identification, an	·
individual identification, a use limitation, and a	
signal domain.	
123. A method for pre-processing a	Page 9 line 21 – page 12 line 31.
digital data signal, comprising:	
providing a digital signal;	See page 9 lines 25-29.
identifying a plurality of candidate bits	See page 127 line 10 – page 130 line 13 re
in the digital data signal that can be	perceptually adaptive signing.
manipulated during embedding;	
generating at least one digital watermark	Page 10 lines 26-30.
message to be embedded based on at least one	
predetermined criterion;	
selecting candidate bits to manipulate;	Page 32 lines 12-16.
and	
embedding the at least one digital	See page 11 line 8 – page 12 line 31.
watermark message in the selected candidate	
bits.	
124. The method of claim 123, wherein	Page 10 lines 26-30.
the at least one predetermined criterion includes	
at least one characteristic of the digital signal.	
125. The method of claim 123, wherein	
123. The initiality of claim 123, wheleful	<u> </u>

See page 127 line 10 – page 130 line 13 re
perceptually adaptive signing.
prospensely warpers a species.
D 161' 00 171' 7
Page 16 line 22 - page 17 line 7.
See page 8 line 13 – page 9 line 18.
. 0
· · · · · · · · · · · · · · · · · · ·
Page 34 line 25 - page 35 line 12, and page
73 line 24 – page 74 line 2.
Page 34 line 25 - page 35 line 12, and page
73 line 24 – page 74 line 2.
See Figure 13.
Page 121 lines 26-28.
Page 121 lines 26 29
Page 121 lines 26-28.

133. A method for pre-processing a digital data signal to authorize a plurality of unique descendant copies of the digital data signal, comprising:	See Figure 13 and page 48 line 7 – page 50 line 26.
providing a digital data signal;	See Figure 13, frame 12183 and page 48 line 18.
identifying candidate bits of the digital data signal that will be manipulated during scrambling;	e.g., Frame 12183.
generating a key on at least one predetermined criterion; and	Page 49 lines 26-31.
manipulating the digital data signal at	Page 48 line 30 – page 49 line 2.

Respectfully submitted,

Charles L. Gholz Registration No. 26,395 Attorney of Record OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C. Fourth Floor 1755 Jefferson Davis Highway Arlington, Virginia 22202 (703) 412-6485 (direct dial) (703) 413-2220 (facsimile) CGHOLZ@OBLON.COM (e-mail)

Of Counsel:

scrambling key.

Michael R. Casey, Ph.D. Registration No. 40,294 OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C. Fourth Floor 1755 Jefferson Davis Highway Arlington, Virginia 22202 (703) 412-6217 (direct dial) (703) 413-2220 (facsimile) MCASEY@OBLON.COM (e-mail)

the plurality of candidate bits with the

W. Todd Baker, Esq.
Registration No. 45,265
OBLON, SPIVAK, McCLELLAND,
MAIER & NEUSTADT, P.C.
Fourth Floor
1755 Jefferson Davis Highway
Arlington, Virginia 22202
(703) 412-6383 (direct dial)
(703) 413-2220 (facsimile)
TBAKER@OBLON.COM (e-mail)

I:\ATTY\WTB\10512\105120007\607 REQUEST.SUPP.DOC